

AUTHOR: LANDAU, L.L.

PA - 2059

TITLE: ~~Oscillations of a FERMI Liquid~~ (Kolebanija Fermi-zidkosti, Russian)

PERIODICAL: Zhurnal Eksperimental'noi i Teoret. Fiziki, 1957, Vol 32, Nr 1, pp 59-66 (U.S.S.R.)

Received: 3 / 1957

Reviewed: 4 / 1957

ABSTRACT:

This work deals with the propagation of waves in a FERMI liquid and is based on a theory of such liquids developed by the author. In a FERMI liquid such waves can propagate at absolute zero as differ essentially from normal sound; they are here denoted as waves of the "zero sound".

Oscillations of the FERMI liquid at the absolute zero.

The author begins with the investigation of such oscillations as do not concern the spin characteristics of the liquid. The distribution function n_0 , which corresponds to the equilibrium, as well as the "perturbed function", are independent of the spin variables. At absolute zero n_0 represents a "step-like" function which breaks off at the boundary momentum $p = p_0$. The energy of the quasi particles (elementary excitations) is a functional of n , i.e. the form of the function $\epsilon(p)$ depends on the form of $n(p)$ and, analogously to above we write $\epsilon = \epsilon_0(p) + \delta \epsilon(p)$. Here $\epsilon_0(p)$ denotes the dis-

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Oscillations of a FERMI liquid.

tribution of $n_0(p)$. The kinetic equation for the FERMI liquid is as follows: $\partial n / \partial t + (\partial n / \partial \vec{r})(\partial \epsilon / \partial \vec{p}) - (\partial n / \partial \vec{p})(\partial \epsilon / \partial \vec{r}) = I(n)$. Here $I(n)$ denotes the integral of the collisions among quasiparticles. At absolute zero $I(n) = 0$ applies. The equation for the determination in principle of the propagation velocity of the waves is given. As an example the following case is investigated here: a function of the aforementioned equation is reduced to a constant. According to the considerations of this work no asymmetric zero-sound can be propagated in liquid He^3 . The numerical data for the symmetric zero sound are given. The energy spectrum of a FERMI liquid can automatically contain a "BOSE branch" in the form of phonons of the energy $\epsilon = \hbar \omega$.

Oscillations of a FERMI liquid at temperatures above zero:

Collisions of quasiparticles occur in a FERMI liquid at low temperatures which, however, are different from zero, on which occasion the number of collisions is proportional to T^2 . The corresponding relaxation time (time of free length of path) amounts to $\tau \sim 1/T^2$. The character of the waves propagated in the liquid of course depends essentially on the ratio between

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Oscillations of a FERMI liquid.

their frequency and the inverse relaxation time.

The spin waves in a FERMI liquid: Also waves of a different type can be propagated in a FERMI liquid at absolute zero; they may be described as spin waves. Most of the calculations of the first part can be applied immediately also to spin waves.

ASSOCIATION: Institute for Physical Problems of the Academy of Sciences
of the USSR

PRESENTED BY:

SUBMITTED:

AVAILABLE: Library of Congress

Card 3/3

LANDAU, M. A.

65-58-4-10/12

AUTHORS: Kusakov, M. M., Landau, M. A., Lubman, N. W., and Shchetsko, M. I.

TITLE: Calcium Hydride Method for Determining the Content of the Water in Fuel When Taking into Account the Kinetics of Evolution of Hydrogen (Gidridkal'tsiyevyy metod opredeleniya sodержaniya vody v toplive s uchëtom kinetiki vydeleniya vodoroda)

PERIODICAL: Khimiya i Tekhnologiya Topliv i Masel, 1958, No 4, pp 55 - 61 (USSR)

ABSTRACT: The solubility of water in hydrocarbon liquids, and, partly in fuels and oils depends in a varying degree on their chemical composition and on the temperature (Refs. 1 and 2); the liquids are very hygroscopic. The calcium hydride method is one of the most important amongst the physical and chemical methods of determining the water content in hydrocarbon liquids (Refs. 3 - 8). It is based on measuring the volume (V method) or the pressure (P method) of hydrogen, separated during the reaction of calcium hydride and water. Formulae are derived for calculating the water content according to both methods (formulae 2 and 7). When excess calcium hydride is reacted with water a second order reaction takes place. A graphical method for the determination of the volume or pressure of hydrogen is also given.

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65-58-4-10/12

Calcium Hydride Method for Determining the Content of the Water in Fuel When Taking into Account the Kinetics of Evolution of Hydrogen

A second variation of the P method makes it possible to determine the content of water in hydrogen liquids with an accuracy of about 3%. This method is recommended for Research Institutes for determining the waters dispersed in the form of very fine drops. When calculating the evolution of hydrogen according to the V method it is possible to shorten the time of the experiment, and to increase the accuracy of measurements to about 3% - 5%. Formulae for calculating the reaction kinetics of the interaction of calcium hydride in water are given (formulae 8 - 10). Experiments were carried out with synthetic mixtures of the fuel T-1 and petrol B-70 with water in reaction pumps (Fig.1). Table 1 and 2 shows results of experiments according to the V method and P method respectively. There are 4 Figures, 2 Tables, and 10 References: 6 Russian, 2 English and 2 German.

ASSOCIATION: Petroleum Institute AS USSR (Institut nefti AN SSSR)

Card 2/2

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|------------------------|---------------------------------|
| 1. Water-Determination | 2. Calcium hydride-Applications |
| 3. Fuels-Impurities | |

LANDAU, M.A.; SHCHEKIN, V.V.

Difference in the mechanisms of dehydrogenation on oxides and on metals. Izv.AN SSSR Otd.khim.nauk no.5:946-947 My '60.
(MIRA 13:6)

1. Institut neftekhimicheskogo sinteza Akademii nauk SSSR.
(Dehydrogenation) (Catalysts)

LANDAU, M.A.; SHCHEKIN, V.V.

Chemical correspondence principle in heterogeneous catalysis.
Trudy Inst. nefti 14:118-126 '60. (MIRA 14:5)
(Catalysis)

S/081/61/000/021/011/094
B102/B138

AUTHORS: Landau, M. A., Shchekin, V. V.

TITLE: The multiplet theory of catalysis and the principle of microscopic reversibility

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 21, 1961, 49, abstract 21B391 (Tr. In-ta nefti. AN SSSR, v. 14, 1960, 127 - 135)

TEXT: The multiplet theory asserts that chemical bonds are broken where the atoms are attracted by different active points of a catalyst, and are formed between atoms attracted to the one active point. The authors maintain that this is contrary to the principle of microscopic reversibility which requires the refutation of this assertion. This is in no way contradictory to the principle affirmation of the structural part of multiplet theory, which states that multi-point adsorption of the reacting molecules must take place on the surface of the catalyst if catalytic reaction is to be accomplished. The usual doublet schemes should therefore be maintained, since there is greater possibility of the presence of a doublet on the catalytic surface than of a quadruplet. The multiplet
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S/081/61/000/021/011/094
B102/B138

The multiplet theory...

theory assertion that the catalyst atom has a directional effect in the formation of new bonds must also be discarded from the energy standpoint, as hardly any activation is required to close the free valencies formed after destruction of the bonds. [Abstracter's note: Complete translation.]

Card 2/2

LANDAU. M.A.; SHCHEKIN, V.V.

Reactions of six-membered cyclic hydrocarbons and the multiplet
theory of catalysis. Trudy Inst. nefi 14:136-149 '60.
(MIHA 14:5)

(Catalysis)
(Hydrocarbons)

3/081/61/000/021/012/094
B102/B138

AUTHORS: Landau, M. A., Shchekin, V. V.

TITLE: Multiplet theory of catalysis. The principle of energetic correspondence

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 21, 1961, 49, abstract 21B392 (Tr. In-ta nefti. AN SSSR, v. 14, 1960, 150 - 159)

TEXT: The authors discuss the fundamentals of the multiplet theory of catalysis and point out some of its deficiencies. The principle of energetic correspondence only takes account of the quantitative energy relations, and not the qualitative chemical nature of the bonds formed between atoms reacting in the chemical transformation and those of the catalyst. The authors feel that this has serious inconsistencies and does not explain the experimentally observed and theoretically proven increase in the rate of heterogeneous catalytic reaction when activation energy is raised. [Abstracter's note: Complete translation.]

Card 1/1

LANDAU, M.A.; SHCHEKIN, V.V.

Chemical correspondence in heterogeneous catalysis. Izv. AN SSSR Otd.
khim. nauk no. 3:430-436 Mr '61. (MIRA 14:4)

1. Institut neftekhimicheskogo sinteza AN SSSR.
(Catalysis)

LANDAU, M.A.

Activation of metallic catalysts. Report No.1: Concepts of the
origin of free valences in metals. Izv.AN SSSR Otd.khim.nauk
no.4:582-586 Ap '62. (MIRA 15:4)

1. Institut neftekhimicheskogo sinteza AN SSSR.
(Catalysts) (Valence (Theoretical chemistry))

LANDAU, M.A.

Activation of metallic catalysts. Report No.2: Activation energies
of chemisorption and catalytic reaction. Izv. AN SSSR. Ots.khim.
nauk no.5:789-799 My '62. (MIRA 15:6)

1. Institut neftekhimicheskogo sinteza AN SSSR.
(Adsorption) (Catalysis)

ACCESSION NR: AP4024403

S/0204/64/004/001/0053/0060

AUTHOR: Landau, M.A.

TITLE: Equilibrium kinetics of ethylene polymerization on chromium oxide and molybdenum oxide catalyst

SOURCE: Neftekhimiya, v. 4, no. 1, 1964, 53-60

TOPIC TAGS: Polymerization, ethylene polymerization, equilibrium kinetics, chromic oxide catalyst, chromic oxide aluminosilicate catalyst, molybdenum oxide catalyst, catalyst surface, autocontamination, catalyst activity, catalyst geometric characteristic

ABSTRACT: As a continuation of earlier work (M. A. Landay, V. V. Shchekin. Neftekhimiya 3, No. 5, 713, 1963) the polymerization of ethylene on oxide catalysts without solvent at 20-100C at 0.5-1 atm. and at low pressures was investigated. The physical significance was investigated of the kinetics of the earlier developed equation (1): $w = kqp - bpx$ (w = reaction rate, p = ethylene pressure at the moment t , p_0 = initial pressure of ethylene in the system, $x = p_0 - p$, q = catalyst weight, and k , b = constants). Measurement of the surface of the catalysts by adsorption of n -heptane and of benzene after ethylene polymerization confirmed the assumption

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ACCESSION NR: AP4024403

that the decrease of the operating catalyst surface during the course of the reaction is proportional to the amount of polymer formed, i.e., $w = k_1 pS = k_1 p(S_0 - b_1 x)$ where S = catalyst surface area at moment t , S_0 = surface area of original catalyst, and k_1 and b_1 = constants. The relationship shown in equation (1) holds for CrO_3 /aluminosilicate catalyst, but deviations appear with various $CrO_3/\gamma Al_2 O_3$ and $MoO_3/\gamma Al_2 O_3$ catalysts. The continuation of some oxide catalyst activity when the catalyst surface is completely covered with polymer is ascribed to autocontamination. Inhibition of ethylene polymerization on the oxide catalyst surface depends little on temperature, is independent of the chemical nature of the catalyst and is determined only by the geometric characteristics of the catalyst. Under the experimental conditions used, ethylene polymerization takes place in the internal kinetics area of the catalyst and is not affected by diffusion of ethylene through the polymer layer to the interior to the catalyst pores. It was determined that the method worked out earlier for studying the kinetics of ethylene polymerization on oxide catalysts is applicable to studies at pressures of 30-45 mm. Hg. "Adsorption isotherms were obtained by V. P. Prokof'ev and Ye.

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ACCESSION NR. AP4024403

G. Polrovsko, for which the author expresses thanks." "In conclusion the author thanks Yu. A. Kolbanovsko, V. P. Lebedeva, L. S. Polak, A. Ya. Rozovsko and V. V. Shchekin for valuable assistance in the discussed work." Orig. art. has: 7 tables, 8 equations and 2 figures.

ASSOCIATION: Institut neftekhimicheskogo sinteza AN SSSR im. A. V. Topchiyeva
(Institute of Petrochemical Synthesis, AN SSSR)

SUBMITTED: 09Jul63

DATE ACQ: 17Apr64

ENCL: 00

SUB CODE: CH

NO. REF. SOV: 009

OTHER: 007

Card 3/3

LANDAU, M.A.; MALININ, N.K.

Trimerization of chlorocyanogen. Zhur. fiz. khim. 39 no.3:779
Mr '65. (MIRA 18:7)

LANDAU, N. A.
Quantitative determination of bismuth. N. A. Landau.
U.S.S.R. 101,731, Dec. 31, 1955. To det. Bi in the
presence of Pb, Bi's pptd. with Na 4-hydroxy-3-nitroben-
zenearsonate in the presence of HNO₃. The ppt. is dissolved
in HCl and titrated with KBrO₃. M. Hosh.

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LANDAU, N.A.

Search for an effective method of packing therapeutic mud
for its use in areas other than health resorts. Vop. kur.
fizioter. i lech. fiz. kul't. 28 no.5:457-460 S-O '63.

(MIRA 17:9)

1. Iz Ukrainskogo instituta kurortologii i fizioterapii (dir.-
dotsent F.Ye. Kurkudym).

KUDRYASHOV, B.A.; ANDREYENKO, G.V.; YEGOROV, N.S.; STRUKOVA, S.M.;
LANDAU, N.S.

Fibrinolytic agents isolated from some saprophytic fungi
cultures. Dokl. AN SSSR 153 no.4:939-942 D '63.

(MIRA 17:1)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova.
Predstavleno akademikom V.N. Shaposhnikovym.

LANDAU, N.S.; YEGOROV, N.S.

Production of fibrinolytic agent of *Aspergillus oryzae* strain MSU
in a submerged culture on the synthetic medium. Nauch.dokl.vys.
shkoly; biol.nauki no.3:168-172 '65.

(MIRA 18:8)

1. Rekomendovana kafedroy mikrobiologii Moskovskogo gosudarstvennogo
universiteta im. M.V.Lomonosova.

FILEPPOVA, M.S.; LANDOU, H.S.; BEPPILOVA, M.V.

Formation of the antibiotic of the candicidin type. *Izv. vuzov. i mikrobiol.* 2 no.3:327-351 (June 1965). (En: 1967)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova, biologo-pochvennyy fakul'tet.

YFGOROV, N.S.; LANDAU, N.S.

Effect of various glycerin concentrations and nitrogen nutrients
on the biosynthesis of fibrinolytic substance by the *Aspergillus*
oryzae culture, strain MGU. Prikl. biokhim. i mikrobiol. i
no.5:487-493 S-O '65. (MIRA 18:11)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo
universiteta imeni M.V. Lomonosova.

IVANOV, K.K.; LANDAU, H.S.; SOKOLOVA, L.B.

Respiration of cultures of *Actinomyces circulatus* var. *monomycini*. Biosynthesis of monomycin on various culture media. Antibiotiki 8 no.1:18-27 Ja'63. (MIRA 16:6)

1. Institut po isyskaniyu novykh antibiotikov AMN SSSR.
(ACTINOMYCETES) (MONOMYCIN)
(BACTERIOLOGY—CULTURES AND CULTURE MEDIA)

GAUZE, G.F.; KOCHETKOVA, G.V.; VLADIMIROVA, G.B.; LANDAU, N.A.

Some characteristics of the mutants of *Staphylococcus*
afermentans with a respiratory defect. *Mikrobiologiya* 32
no.2:260-265 Mr-Apr '63. (MIRA 17:9)

1. Institut po izyskaniyu novykh antibiotikov SSSR.

GAUZE, G.F.; VLADIMIROVA, G.B.; ZIMENKOVA, L.P.; LANDAU, N.S.

Study of the antibiotic properties of mutants of micro-organisms with oxidation defects. Antibiotiki 8 no.12:1082-1085 D '63.

(MIRA 17:10)

1. Institut po izyskaniyu novykh antibiotikov AMN SSSR.

CHERNOBEL'SKAYA, M.N. [Chernobyl's'ka, M.N.]; KORDYUM, V.A.; LANDAU, S.M.

Role of some factors on the spore formation of phosphorus
bacteria. Visnyk Kyiv.un. no.2. Ser.biol. no.1:103-106 '59.
(MIRA 16:4)

(BACTERIA, PHOSPHORUS) (SPORES (BOTANY))

KOZLOVA, Anna Vasil'yevna, prof.; ANKUDINOV, Vladimir Alekseyevich;
OMEL'YANENKO, Lyudmila Markovna; LANDAU, S.P., red.; POGOSKINA,
M.V., tekhn.red.

[Manual on carrying out practical studies on the clinical aspects
of radiation sickness; handbook for teachers] Rukovodstvo k pro-
vedeniyu prakticheskikh zaniatii po klinike luchevoi bolezni;
posobie dlia prepodavatelei. Moskva, Gos.izd-vo med.lit-ry, 1960.
136 p. (MIRA 14:4)

1. Zaveduyushchiy kafedroy kliniki luchevoy bolezni i kombinirovan-
nykh radiatsionnykh povrezhdeniy Tsentral'nogo instituta usover-
shenstvovaniya vrachev (for Kozlova).
(RADIATION SICKNESS)

BERDYSEV, Gennadiy Dmitriyevich; LANDAU, S.P., red.; SENCHILO, K.K.,
tekhn.red.

[Ionizing radiation and vitamins; survey of the problem and the
author's research on vitamin B₁₂] Ioniziruiushchie izlucheniia
i vitaminy; obzor problemy i sobstvennye issledovaniia s vita-
minom B₁₂. Moskva, Gos.izd-vo med.lit-ry, 1960. 137 p.
(MIRA 13:9)

(RADIATION SICKNESS)

(VITAMINS)

LANDAU, Ya.L.

Border line between the pathological and physiological fear
reaction. Prak.sudelnopsikh.ekspert. no.14:32-37 '61. (MIRA 16:2)

(PSYCHOLOGY, PATHOLOGICAL) (PSYCHOLOGY, PHYSIOLOGICAL)
(FEAR)

LANDAU, Ya.L.

So-called "fear reactions". Prob.sud.psikh. 10:100-110'61.
(MIRA 16:7)

(FEAR) (PSYCHOLOGY, PATHOLOGICAL)

LAUNDAU, Ya. M.

Clinical significance of hormonal diagnosis of pregnancy on male frogs.
Akush.gin., Moskva No.4:42-44 July-Aug 51. (CIML 21:1)

1. Decent. 2. Of the Obstetric-Gynecological Clinic (Head--Prof. P.P. Sidorov), Stalino Medical Institute.

LANDAU, Ya.M., dotsent; SIGALOV, A.B.

Prolonged conditioned sleep in pre- and postoperative care in
gynecological diseases. Akush. i gin. no.4:25-28 J1-Ag '54.
(MLRA 7:11)

1. Iz akushersko-ginekologicheskoy kliniki (zav. prof. P.P.
Sidorov) Stalinskogo meditsinskogo instituta.

(GYNECOLOGICAL DISEASES, surgery,

preop. & postop. cares, sleep ther. in)

(SLEEP, therapeutic use.

gyn. dis., in preop. & postop. cares)

(PREOPERATIVE CARE

sleep ther. in gyn. dis.)

(POSTOPERATIVE CARE,

sleep ther. in gyn. dis.)

LANDAU, Ya.M., dotsent

Comparative rating of Novitskii's hand plethysmograph and Shteinberg's
plethysmoreceptor. Vrach.delo no.11:1215 N '56. (MIRA 10:3)

1. Akushersko-ginekologicheskaya klinika (zaveduyushchiy - professor
P.P.Sidorov) Stalinskogo meditsinskogo instituta.
(PLETHYSMOGRAPH)

USSR/Human and Animal Physiology - Blood Circulation.

T-5

Abs Jour : Ref Zhur - Biol., No 7, 1958, 31732

Author : Landau, Ya.M.

Inst :

Title : Comparative Evaluation of the Novitskiy Manual Plethysmograph and the Steinberg Plethysmoreceptor.

Orig Pub : Vracheb. delo, 1956, No 11, 1215-1216

Abstract : In 10 tests, a plethysmogram was simultaneously registered from the right hand by means of the Novitskiy plethysmograph and from the left by means of the Steinberg plethysmoreceptor. The curves registered by the plethysmoreceptor of the vascular reactions to temperature, pain and conditioned stimulants possess significantly less amplitude. The author explains this by the fact that the plethysmoreceptor registers vascular reactions from a comparatively small part of the hand; one can utilize this instrument in cases of sharply expressed vascular reactions.

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LANDAU, Ya.M., dotsent

Discussion on I.Kharvat's article "Neurohumoral concept in endocrinology."
Klin.med. 34 no.4:80-82 Ap '56. (MLRA 10:1)

1. Iz akushersko-ginekologicheskoy kliniki (zav. - prof. P.P.Sidorov)
Stalinskogo meditsinskogo instituta (dir. - dotsent A.M.Ganichkin).
(ENDOCRINE GLANDS,
neurohumoral regulation (Rus))

LANDAU, Ya. M., Doc Med Sci -- (diss) "Laboratory methods of diagnosis of pregnancy." Stalino, 1957. 17 pp (Voronezh State Med Inst, Stalino State Med Inst), 250 copies. List of author's works at end of text (KL, 2-58, 115)

-55-

LANDAU, Ya.M., dotsent; SIGALOV, A.B.; KARPUSHIN, V.P.; MIROSHNICHENKO,
V.P.; RUDNEVSKIY, Yu.I.

Physiological blood loss in the puerperal period of normal labor.
Sov.med. 24 no.3:89-94 Mr '60. (MIRA 14:3)

1. Iz akushersko-ginekologicheskoy kliniki (zav. prof. P.P.Sidorov)
Stalinskogo meditsinskogo instituta (dir. - dotsent A.M.Ganichkin).
(PUERPERIUM)

LANDAU, Ya.M.

Clinical aspects and diagnosis of chorioepithelioma of the uterus according to the material from the obstetrical and gynecological clinic of the Stalino Medical Institute. Akush. i gin. 36 no.3: 24-27 My-Je '60. (MIRA 13:12)

(UTERUS--CANCER)

LANDAU, Ya.M., doktor med.nauk

Chorioepithelioma of the uterus. Sov. med. 25 no.8:135-138 Ag '61.
(MLA 15:1)

1. Iz akusher'sko-ginekologicheskoy kliniki (zav. - doktor med.nauk
prof. P.P.Sidorov) Stalinskogo meditsinskogo instituta (dir. -
dtsent A.M.Ganichkin) i Bol'nitsy imeni M.I.Kalinina (glavnyy
vrach - kand.med.nauk B.A.Shaparenko).
(UTERUS--CANCER)

LANDAU, Ya. M., doktor med. nauk

Primary chorioepithelioma of the vagina. Akush. i gin. 38 no.3:
81-84 My-Je '62. (MIRA 15:6)

1. Iz kafedry akusherstva i ginekologii No. 2 (zav. - doktor
meditsinskikh nauk Ya. M. Landau) Donetskogo meditsinskogo
instituta na baze bol'nitsy imeni M. I. Kalinina (glavnyy vrach
I. N. Golub)

(VAGINA—CANCER)

LANDAU, Ya.M.

Some controversial problems in the diagnosis and treatment of chorio-epithelioma of the uterus. Akush. i gin. 40 no.4:92-95 Ji-Ag '64.
(MIRA 18:4)

1. Kafedra akusherstva i ginekologii peditricheskogo i sanitarno-gigiyenicheskogo fakul'tetov (sav. - prof. Ya.M. Landau) Donetskogo meditsinskogo instituta.

JANUARY, 1965.

Diagnosis of primary cancer of the fallopian tubes. Vop. onk. 21
no. 11-12 '65. (MIRA 1806)

1. In kafedry akusherstva i ginekologii Nr. 2 (zav. kafedroy --
prof. Ya.M. Janbou) Donetskogo medicinskogo instituta (rektor --
prof. A.M. Gaidukhin).

LANDAU, L.M., 1961; FIL'NER, Y.L.

Changes in the systolic arterial pressure in heart failure
during a normal sleep. *Tr. Vsesoyuzn. nauch. i inzh. nauch.-issled. inst. kardiologii*

(Moscow 1961:10)

1. Kafedra fiziologii i patologii serdtsa (zav. - prof. Ya.M. Landau)
Institut kardiologii im. A.N. Sechenova.

LI. J. J. J. I.
BORN, Given Names

Country: Rumania

Academic Degrees: -Engineer-
Scientific

Affiliation/Secretary, Institute for Food Research (Secretar Stiintific,
Institutul de Cercetari Alimentare).

Source: Bucharest, Stiinta si Tehnica, Vol XIII, No 11, Nov 1961, pp 12-13.

Data: "A Visit to the Institute for Food Products. New Food Products."

GPO 5316-3

REYTNBARG, David Isakovich; LANDAU-TYLKINA, S.P., red.; LYUDKOVSKAYA, N.I.,
N.I., tekhn.red.

[Does it pay to take a chance?] Stoit li riskovat'. Moskva, Gos.
izd-vo med.lit-ry, 1960. 78 p. (MIRA 14:1)
(Moscow--Traffic safety)

PETRISHIN, T.L.; LANDAU, S.P.

Effect of the short wave sector of the solar spectrum upon plants. Izv. AN
SSSR Ser. biol. no. 6:79-89 N-D '53. (MIRA 6:11)
(Solar radiation) (Plants, Effect of ultraviolet waves on)

LANDAU-TYLIKINA, S.P., redaktor; SACHEVA, A.I., tekhnicheskiy redaktor

[Temporary sanitation rules on the construction and equipment of
the gamma ray therapy room] Vremennye sanitarnye pravila po
ustroistvu i oborudovaniyu kabineta dlia gammaterapii. Moskva,
Gos. izd-vo med. lit-ry, 1955. 11 p. (MIRA 9:3)
(RADIOTHERAPY)

LANDAU - TYLKINA, S.P.

BELOSTOTSKAYA, Yelena Maksimovna; LANDAU-TYLKINA, S.P., redaktor; SENCHILO,
K.K., tekhnicheskii redaktor.

[Watch your eyesight; a Pioneer meeting dedicated to the question of
sight] Bereгите zrenie; sbor otriada pionerov posviashchaetsia zreniiu.
Moskva, Gos.izd-vo med.lit-ry 1956. 42 p. (MLRA 10:4)
(EYE--CARE AND HYGIENE)

GROMBAKH, Sergey Mikhaylovich; LANDAU-TYLKINA, S.P., redaktor; SENCHILLO,
K.K., tekhnicheskly redaktor

[Hygienic basis for norms governing air temperature in institutions
for young children] Gigienicheskoe obosnovanie norm temperatury
vozdukha v uchrezhdeniyakh dlia detei rannego vozrasta. Moskva, Gos.
izd-vo med. lit-ry, 1956. 81 p. (MLBA 9:7)

(TEMPERATURE--PHYSIOLOGICAL EFFECT)

(CHILDREN--CARE AND HYGIENE)

LANDAU, S.P.

KROTKOV, F.G.,redaktor; LEBEDINSKIY, A.V.,redaktor; IGNAT'YEV, A.I.,
redaktor; LANDAU, S.P.,redaktor; KHANOVA, T.M.,redaktor;
BEL'CHIKOVA, Yu.S.,tekhnicheskiy redaktor

[Abstracts of reports at the conference on late sequelae of
affections caused by ionizing radiation] Referaty dokladov na
konferentsii po otdalennym posledstviyam porazhenii,
vyzvannykh vozbudivshimi ioniziruiushchei radiatsii. Pod red.
F. G. Krotkova, A.V. Lebedinskogo, A.I. Ignat'eva. Moskva,
Gos. izd-vo med. lit-ry, 1956. 82 p. (MLRA 10:4)

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(RADIATION--PHYSIOLOGICAL EFFECT)

LEBEDEVA, Veronika Anatol'yevna; LANDAU-TYLKINA, S.P., redaktor;
REL'CHIKOVA, Yu.S., tekhnicheskii redaktor

[Pedagogical work with children in osteotubercular sanatoriums]
Pedagogicheskaya rabota v detskikh kostnotuberkuleznykh sanatoriakh.
Moskva, Gos. izd-vo med. lit-ry, 1956. 98 p. (MLBA 9:7)
(BONES--TUBERCULOSIS) (HOSPITAL SCHOOLS)

LANDAU-TULKINA, S.P.

IOYRISH, Naum Petrovich; LANDAU-TULKINA, S.P., redaktor; BEL'CHIKOVA, Yu.S.,
tekhnicheskii redaktor

[Friends of health] Druz'ia zdorov'ia. Moskva, Gos. izd-vo med.
lit-ry, 1956. 98 p. (MLRA 10:3)
(VITAMINS) (BOTANY, MEDICAL)

BURMISTROV, Lev Semenovich; BURMISTROVA, Anna Grigor'yevna; LANDAU-TILKINA,
S.P., red.; BUL'DYAYEV, N.A., tekhn.red.

[Teaching natural sciences in schools of bone-tuberculosis
sanatoriums] Prepodavanie estestvennykh nauk v shkole kostnotuber-
kuleznogo sanatoria. Moskva, Gos.isd-vo med.lit-ry, 1958. 95 p.
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(Science--Study and teaching)
(Physically handicapped children--Education)

GRIGOR'YEV, Yuriy Grigor'yevich; LANDAU-TYLKINA, S.P., red.; KNAKNIN,
M.T., tekhn.red.

[Materials for a study of the reactions of the human central
nervous system to ionizing radiation] Materialy k izucheniiu
reaktsii tsentral'noi nervnoi sistemy cheloveka na ioniziru-
iushchee izluchenie. Moskva, Gos.izd-vo med.lit-ry Medgiz,
1958. 135 p. (MIRA 12:11)
(RADIATION--PHYSIOLOGICAL EFFECT) (NERVOUS SYSTEM)

FRANK, G.M., prof., otv.red.; VARSHAVER, G.S., dotsent, zamestitel' otv.
red. (Moskva); GALANIN, N.F., prof., red. (Leningrad); DANTSIG,
N.M., prof., red. (Moskva); LAZAREV, D.N., kand.tekhn.nauk, red.
(Leningrad); SOKOLOV, M.V., prof., red. (Moskva); SKOBELEV, V.M.,
kand.tekhn.nauk, red. (Moskva); LANDAU-TILKINA, S.P., red.;
KHANOVA, T.M., red.; LYUDKOVSKAYA, N.I., tekhn.red.

[Ultraviolet radiation; sources, measurement, hygienic and thera-
peutic use] Ul'trafiol'tovoe izluchenie; istochniki, izmerenie,
gigienicheskoe i lechebno-profilakticheskoe primeneniye. Moskva,
Gos.izd-vo med.lit-ry, 1958. 298 p. (MIRA 13:3)

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(ULTRAVIOLET RAYS)

LANDAU-TYLKINA, S.P.

BOL'SHAKOVA, M.D., dots.; GOL'DFELD, A.Ya., doktor meditsinskikh nauk, red.;
GORINEVSKAYA, V.V., prof. [deceased]; KORSUNSKAYA, M.I., prof.;
POITEVA, Yu.K., kand. meditsinskikh nauk; LANDAU-TYLKINA, S.P., red.;
BEL'CHIKOVA, Yu.S., tekhn. red.

[Manual for school physicians] *Rukovodstvo dlia shkol'nykh vrachei.*
Moskva, Gos. ind-vo med. lit-ry, 1958. 353 p. (MIRA 11:12)
(SCHOOLS, HYGIENE)
(CHILDREN--CARE AND HYGIENE)

TARASENKO, Nataliya Yuvnal'yevna; KHODYREVA, Mariya Alekseyevna;
LANDAU-TYLEKINA, S.P., red.; ZAKHAROVA, A.I., tekhn.red.

[Protection for the hands in work with radioactive substances]
Zashchita ruk pri rabote s radioaktivnymi veshchestvami. Moskva,
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(RADIOACTIVITY--SAFETY MEASURES)

DEGLIN, Viktor Yakovlevich; LANDAU-TYIKINA, S.P., red.; LYUDKOVSKAYA,
N.I., tekhn.red.

[Useful habits and daily regimen] Poleznye privychki i rezhim
dnia. Moskva, Gos.izd-vo med.lit-ry. 1960. 25 p. (MIRA 13:5)
(HYGIENE)

VORONTSOVA, Yelena Ivanovna; LANDAU-TYLKINA, S.P., red.; BALDINA, N.F.,
tekhn.red.

[Industrial hygiene for the electric welder] Gigiena truda
elektrosvarshchika. Moskva, Gos.izd-vo med.lit-ry Medgiz,
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ZAKUTINSKIY, David Iosifovich, prof.; SELIVANOVA, Lidiya Nikolayevna,
kand.biolog.nauk; LANDAU-TYLKINA, S.P., red.; ZUYEVA, N.K.,
tekhn.red.

[Biological evaluation of preparations for use in the prophylaxis
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(RADIATION SICKNESS)

PROLOV, Yuriy Petrovich, prof., zasluzhennyy deyatel' nauki RSFSR;
GAL'PERIN, S.I., red.; LANDAU-TYLIKINA, S.P., red.; GABERLAND,
M.I., tekhn.red.

[Brain and work; I.P.Pavlov's teaching and problems in scientific
organization of work] Mozg i trud; uchenie I.P.Pavlova i voprosy
nauchnoi organizatsii truda. Moskva, Gos.izd-vo med.lit-ry,
Medgiz, 1960. 181 p. (MIRA 14:1)

(WORK, METHOD OF)

(BRAIN)

MOISEYEV, Vladimir Dmitriyevich; BERNSHTEYN, N.A., prof., red.;
BASSIN, F.V., red.; LANDAU-TYLKINA, S.P., kontrol'nyy red.;
BUL'DIYEV, N.A., tekhn.red.

[Cybernetic problems in biology and medicine] Voprosy kibernetiki v biologii i meditsine. Pod obshchei red. i s predisl. N.A.Bernshteina. Moskva, Gos.izd-vo med.lit-ry, 1960. 301 p.
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(CYBERNETICS)

(ELECTRONICS IN MEDICINE)

ERLEKSOVA, Yevgeniya Vitol'dovna; LANDAU-TYLKINA, S.P., nauchnyy red.;
ZUYEVA, N.K., tekhn.red.

[Distribution of some radioactive elements in the bodies of
animals (polonium-210, radiothorium-228, plutonium-239, and
strontium-90); atlas] Raspredelenie nekotorykh radioaktivnykh
elementov v organizme zhivotnykh (poloniia-210, radiotoriia-228,
plutoniia-239 i strontsiia-90); atlas. Moskva, Gos.izd-vo med.
lit-ry Medgiz, 1960. 149 p. (MIRA 14:3)
(RADIOBIOLOGY)

GORIZONTOV, P.D., prof., red.; LANDAU-TYLKINA, S.P., red.; SENGHILO, K.K.,
tekhn. red.

[Problems in the pathogenesis, experimental treatment, and prevention
of radiation sickness] Voprosy patogeneza, eksperimental'noi terapii i
profilaktiki luchevoi bolezni. Moskva, Gos. izd-vo med. lit-ry Medgiz,
1960. 431 p. (MIRA 14:7)

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(RADIATION SICKNESS)

KRAYEVSKIY, N.A., prof., red.; LANDAU-TYLKINA, S.P., red.; ZUYEVA,
N.K., tekhn. red.

[Influence of radioactive strontium on the animal organism]
Vliianie radioaktivnogo strontsiia na zhiivotnyi organizm. Mo-
skva, Medgiz, 1961. 199 p. (MIRA 15:1)

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Krayevskiy).

(Strontium—Isotopes)

LEBEDINSKIY, A.V., zasl. deyatel' nauki, prof., red.; MOSKALEVA,
Yu.I., doktor med. nauk, red.; LANDAU-TYLKINA, S.P., red.;
LYUDKOVSKAYA, N.I., tekhn. red.

[Distribution, biological activity and migration of radio-
active isotopes] Raspredelenie, biologicheskoe deistvie i
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Lebedinskiy).

(RADIOISOTOPES—PHYSIOLOGICAL EFFECT)

VOLKOVA, Mariya Alekseyevna; LANDAU-TYLKINA, S.P., red.; LYUDKOVSKAYA,
N.I., tekhn. red.

[Telegamma therapy of malignant tumors] Telegammaterapiia
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(MIRA 15:4)

(GAMMA RAYS—THERAPEUTIC USE) (CANCER)

PIONTKOVSKIY, I.A., prof., red.; LANDAU-TYLKINA, S.P., red.;
ZUYEVA, N.K., tekhn.red.

[Effect of ionizing irradiation on the function of the higher
sections of the nervous system of offspring] Vlianie ionizi-
ruiushchego izlucheniia na funktsiiu vysshikh otdelov tsentral'-
noi nervnoi sistemy potomstva. Moskva, Medgiz, 1961. 209 p.
(MIRA 15:5)

(RADIATION--PHYSIOLOGICAL EFFECT)
(EMBRYOLOGY) (NERVOUS SYSTEM)

BODYAZHINA, V.I.; KIRYUSHCHENKOV, A.P.; POBEDINSKIY, M.N.; POBEDINSKIY,
N.M.; LANDAU-TYLKINA, S.P., red.; MIKONOVA, A.M., tekhn. red.

[Effect of ionizing radiation on the genitalia, pregnancy and
the intrauterine fetus] Vlianie ioniziruiushchei radiatsii na
polovye zhelezy, beremennost' i vnutriutrobnyi plod. Moskva,
Medgiz, 1962. 181 p. (MIRA 15:4)

(RADIATION--PHYSIOLOGICAL EFFECT)

(UTERUS, PREGNANT)

(GENERATIVE ORGANS, FEMALE)

LEBEDINSKIY, A.V., zasl. deyatel' nauki, prof., red.; MOSKALEV, Yu.I.,
doktor med. nauk, red.; LANDAU-TYLIKINA, S.P., red.; KUZ'MINA, N.S.,
tekhn. red.

[Plutonium-239; its distribution, biological action, and the
acceleration of its excretion] Plutonii-239; raspredelenie, bio-
logicheskoe deistvie, uskorenie vyvedeniia. Moskva, Medgiz,
1962. 167 p. (MIRA 15:6)

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Lebedinskiy).

(PLUTONIUM)

PISKUNOV, Moisey Abramovich; SHCHELOVANOV, N.M., prof., red.;
LANDAU-TYLKINA, S.P., kand. biol. nauk, red.; BUL'DYAYEV, N.A.,
tekhn. red.

[Anatomical and physiological bases for and treatment of
tongue-tie] Anatomno-fiziologicheskie osnovy i terapii kosno-
iazychiia. Pod red. N.M.Shchelovanova. Moskva, Medgiz, 1962.
162 p. (MIRA 15:6)

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Shchelovanov).

(SPEECH, DISORDERS OF)

DMITRIYEVA, V.S.; RYBAKOV, A.I.; LANDAU-TYLKINA, S.P., red.; CHULKOV,
I.F., tekhn. red.

[Treatment of injuries to the jaws in acute radiation sick-
ness in an experiment] Lechenie travmy cheliustei pri ostroi
luchevoi bolezni v eksperimente. Moskva, Medgiz, 1962. 180 p.
(MIRA 15:10)

(RADIATION SICKNESS)
(JAWS--WOUNDS AND INJURIES)

IL'INA, Lyubov' Ivanovna; KUKOLEVSKAYA, Yekaterina Vasil'yevna;
LANDAU-TYLKINA, S.P., red.; BEL'CHIKOVA, Yu.S., tekhn.red.

[Electroencephalography of athletes] Elektroentsefalografiia
sportsmenov. Moskva, Medgiz, 1962. 127 p. (MIRA 16:4)
(ELECTROENCEPHALOGRAPHY) (SPORTS MEDICINE)

LYASS, Fedor Mironovich; LANDAU-TYLKINA, S.P., red.; MIRONOVA, A.M.,
tekhn. red.

[Isotope myelography] Isotopnaia mielografiia. Moskva, Medgiz,
1962. 127 p. (MIRA 16:1)
(SPINE--RADIOGRAPHY)

ALEKSEYEVA, O.G.; BIBKOVA, A.F.; VYALOVA, N.A.; IVANOV, A.Ye.; KRAYEVSKIY, N.A.; KURSHAKOV, N.A.; PARAMONOVA, N.V.; PETRUSHKOV, V.N.; SNEGIREVA, V.V.; STUDENIKINA, L.A.; SHTUKKENBERG, Yu.M.; SHULYATIKOVA, A.Ya.; LANDAU-TYLKINA, S.P., red.; YAKOVIEVA, N.A., tekhn. red.

[A case of acute radiation sickness in man] Sluchai ostroi luchevoi bolezni u cheloveka. Moskva, Medgiz, 1962. 149 p.
(MIRA 16:2)

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LIVANOV, Mikhail Nikolayevich; LANDAU-TYLKINA, S.P., red.;
LYUDKOVSKAYA, N.I., tekhn. red.

[Some problems of the action of ionizing radiation on the
nervous system] Nekotorye problemy deistviia ioniziruiushchei
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(MIRA 15:9)

(NERVOUS SYSTEM) (RADIATION--PHYSIOLOGICAL EFFECT)

KOVALENKO, Valentina Yakovlevna; LANDAU-TYLKINA, S.P., red.;
BUKOVSKAYA, N.A., tekhn. red.

[How to protect water and rations from radioactive, chemical
and bacterial agents] Kak zashchitit' vodu i prodovol'stvie
ot radioaktivnykh, otravliaiushchikh veshchestv i bakterial'-
nykh sredstv. Moskva, Medgiz, 1963. 60 p. (MIRA 17:2)

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KLEMPARSKAYA, N.N.; RAYEVA, N.V.; SOSOVA, V.F.; LANDAU-TYLKINA,
S.P., red.; BUKOVSKAYA, N.A., tekhn. rad.

[Antibacterial immunity and radioresistance] Antibakterial'-
nyi immunitet i radiorezistentnost'. Moskva, Medgiz, 1963.
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(IMMUNITY) (RADIATION—PHYSIOLOGICAL EFFECT)

ROGOZKIN, Vladimir Dmitriyevich; BELOUSOV, Boris Pavlovich;
YEVSEYEVA, Nadezhda Karpovna; GORIZONTOV, P.D., prof.
red.; LANDAU-TYLKINA, S.P., red.

[Radiation-protective effect of cyanides; amygdalin] Radio-
zashchitnoe deistvie tsianistykh soedinenii; amigdalín.
Moskva, Medgiz, 1963. 131 p. (MIRA 17:5)

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ZHIRMUNSKAYA, Yelena Aleksandrovna; LANDAU-TYLKINA, S.P., red.;
PETROVA, N.K., tekhn. red.

[Electrical activity of the brain under normal conditions,
in hypertension and in cerebral insultus] Elektricheskaya
aktivnost' mozga v norme, pri gipertonicheskoi bolezni i mozgovom
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Yuriy Sergeyevich; SHAL'NOV, Mikhail Ivanovich;
LANDAU-TYLKINA, S.P., red.; MIRONOVA, A.M., tekhn. red.

[Protection from radioactive fallout] Zashchita ot radioak-
tivnykh osadkov. Moskva, Medgiz, 1963. 187 p. (MIRA 16:9)
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LEPORSKIY, Andrey Afanas'yevich; LANDAU-TYLKINA, S.P., red.;
MATVEYEVA, M.M., tekhn. red.

[Exercise therapy in diseases of the digestive system]
Lechebnaia fizicheskaiia kul'tura pri bolezniakh sistemy
pihchevareniiia. Moskva, Medgiz, 1963. 197 p.
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ZAKUTINSEIY, D.I., prof., red. [for-ward], L. LANDAU-TYLKINA, D. D., 1963.

[Effect of radioactive substances on the sexual formation and
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ztsiyn i potomstvo. Moskva, Medg. z, 1963. 210 p.
(MIRA 18-4)

LANDAU-TYLKINA, S.P.; LAGUTINA, Ye.V., red.

[Everyone should know; physiology of everyday life] Eto
vazhno znat' kazhdomu; fiziologiya obydennoi zhizni. Mo-
skva, Izd-vo "Znanie," 1963. 534 p. (MIRA 17:12)

MODESTOV, Vasilii Kornilevich, prof.; KOZYREVA, Al'bina ~~Iyut'sianovna~~; KLYACHKO, Vitaliy Romanovich; LANDAU-TYLKINA, S.P., red.

[Therapeutic use of radioactive isotopes (I^{131} and P^{32})]
Lechebnoe primenenie radioaktivnykh izotopov (I^{131} i P^{32}).
Moskva, Meditsina, 1964. 164 p. (MIRA 17:11)

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LITVINOV, Nikolay Nikolayevich; LANDAU-TYLKINA, S.P., red.;
EUKOVSKAYA, N.A., tekhn. red.

[Radiation lesions of the skeletal system] Radiatsionnye
porazheniia kostnoi sistemy. Moskva, Medtisine, 1964. 234 p.
(MIRA 17:3)

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MOSKALEV, Yu.I., prof., red.; LANDAU-TYLKINA, S.P., red.

[Distribution, biological effect, acceleration of the
excretion of radioactive isotopes] Raspredelenie, biolo-
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izotopov; sbornik rabot. Moskva, Meditsina, 1964. 374 p.
(MIRA 17:9)

STREL'TSOVA, Vera Nikolayevna; MOSKALEV, Yuriy Ivanovich;
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red.

[Blastomogenic effect of ionizing radiation] Blastomogen-
noe deistvie ioniziruiushchei radiatsii. Moskva, Meditsina,
1964. 382 p. (MIRA 17:3)

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[Mental fatigue of schoolchildren; symptomatology, physiological nature and means of elimination] Umstvennoe utomlenie shkol'nika; simptomatika, fiziologicheskaya priroda i puti ustraneniya. Moskva, Meditsina, 1964. 458 p.
(LIRA 17:8)

TSEFASMAN, Anatoliy Zakharovich; LANDAU-TYLKINA, S.P., red.

[Clinical aspects of the use of radioactive chromium]
Primenenie radioaktivnogo khroma v klinike. Moskva, Meditsina, 1964. 134 p. (MIRA 18:7)

GROMAKOVSKAYA, Mariya Mikhaylovna; ROSIN, Ya.A., otv. red.;
LANDAU-TYLKINA, S.P., red.

[Neurohumoral mechanisms in the regulation of muscular
activity] Neiro-gumoral'nye mekhanizmy regulatsii my-
shechnoi deiatel'nosti. Moskva, Nauka, 1965. 233 p.
(MIRA 18:3)

KANDROV, Il'en Iosifovich; LANDAU-TYIKINA, S.P., red.

[Hypophysis and adrenal glands in radiation lesions of
the body] Gipofiz i nadpochechniki pri radiatsionnykh po-
razheniakh organizma. Moskva, Meditsina, 1965. 147 p.
(MIRA 18:9)

GORSHKOV, Sergey Il'ich; ANTROPOV, Gennadiy Andreyevich; GORBUNOV,
Oleg Nikolayevich; GODIN, V.P., red.; LANDAU-TYLKINA,
S.P., red.

[Biological action of ultrasound] Biologicheskoe deistvie
ul'trazvuka. Moskva, Meditsina, 1965. 196 p.
(MIRA 18:12)

SHTERN, L.S., akademik, otv. red.; RAPOPORT, S.Ya., doktor med.
nauk, red.; ROSIN, Ya.A., doktor med. nauk, prof., red.;
LANDAU-TYLKINA, S.P., red.

[Problems of histohematic barriers; transactions] Proble-
my gisto-gematicheskikh bar'erov; trudy. Moskva, Nauka,
1965. 330 p. (MIRA 18:10)

1. Soveshchaniye po probleme gisto-gematicheskikh bar'yerov.
2d, 1963.

SANDULESCU, R.; LANDAUER, I.

Study of F₁ hybrids obtained by the sexed crossing of different species of tobacco. Studii cerc biol veget 13 no.2:261-271 '61.
(EEAI 10:11/12)

1. Institutul de cercetari alimentare, Sectia culturii tutumului, Bucuresti-Baneasa. Comunicare prezentata de Al. Priadcencu, membru corespondent al Academiei R.P.R.

(Tobacco) (Hybridization)

RUMANIA / Physical Chemistry. Solutions. Theory of B-11
Acids and Bases.

Abs Jour: Ref Zhur-Khimiya, No 7, 1959, 22634.

Author : Murgulescu, I. G., Landauer, Ortansa Paul.

Inst : "C. J. Parhon" University.

Title : Activity of Aqueous Solutions of Electrolytes.
Report I. Solutions of Sodium Chloride and
Potassium Chloride.

Orig Pub: An. Univ. "C. J. Parhon". Ser. stiint. natur.,
1958, No 18, 23-38.

Abstract: The interionic interactions (II) and their thermo-
dynamic functions were studied on mixed solutions
of KCl and NaCl. The determination was carried
out by comparing the activity of the solvent of
binary systems KCl - H₂O and NaCl - H₂O with that

Card 1/3

RUMANIA / Physical Chemistry. Solutions. Theory of Acids and Bases.

Abs Jour: Ref Zhur-Khimiya, No 7, 1959, 22634.

Abstract: of the ternary system $KCl - NaCl - H_2O$ as well as by comparing the activity coefficients of the electrolyte KCl or $NaCl$ in a binary solution with that in a ternary. The activities and the activity coefficients were determined by the cryoscopic method. The activity of the solvent is an additive magnitude. It is shown that the interaction between the electrolyte and the solvent does not change in the concentration range of 0.3 - 1.5 M, if K^+ ions are replaced with Na^+ ions. It is noted that, if the ionic force of the solution is constant, the activity coefficients of $NaCl$ and KCl are additive in aqueous solutions of their mixtures, provided their total

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LANDAUER, ORTANSA

✓ Cryoscopic measurements in nonaqueous solutions. I. 4/1/20
The trichlorides of Group V of the periodic system (PCl₃,
AsCl₃, and SbCl₃) in benzene solution. Victor Părgășanu
and Ortansa Landauer (Polytech. Inst. Bucharest). Bul.
inst. politehnic București 20, No. 2, 97-102 (1958) (in Ger-
man).—The f.p. depressions by these halides are normal
except for very small deviations attributed to dipole inter-
actions. The assumption that SbCl₃ is assoc. in benzene
/1 (Coleman, et al., C.A. 49, 12364a) is thus not confirmed.
J. P. Phillips—